



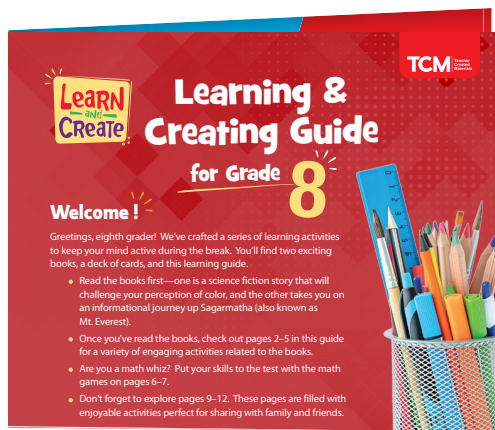
# Resource Sample

Grade 8

## Table of Contents

Learn and Create Guide (3 pages)

Sample Game Cards (3 cards)





# Learning & Creating Guide

## for Grade 8

### Welcome!

Greetings, eighth grader! We've crafted a series of learning activities to keep your mind active during the break. You'll find two exciting books, a deck of cards, and this learning guide.

- Read the books first—one is a science fiction story that will challenge your perception of color, and the other takes you on an informational journey up Sagarmatha (also known as Mt. Everest).
- Once you've read the books, check out pages 2–5 in this guide for a variety of engaging activities related to the books.
- Are you a math whiz? Put your skills to the test with the math games on pages 6–7.
- Don't forget to explore pages 8–11. These pages are filled with enjoyable activities perfect for sharing with family and friends.



## Book Summaries

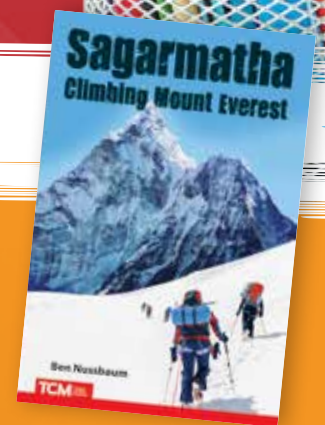
### Fiction—*A World Without Blue*

Join Tessa and Taj as they tackle the chilliest job ever at the world's only Color Laboratory in Antarctica. When a routine day turns into a color catastrophe with the accidental deletion of blue, Tessa and Taj must navigate a whirlwind of hues and emotions to restore the color spectrum.



### Nonfiction—*Sagarmatha: Climbing Mount Everest*

Sagarmatha is the tallest mountain on the planet. It is also known as Mount Everest. The mountain is almost impossible to climb. But with teamwork and the right tools, it can be conquered. Discover how to make it to the top of Sagarmatha!



## Master of Potions (2–4 Players)

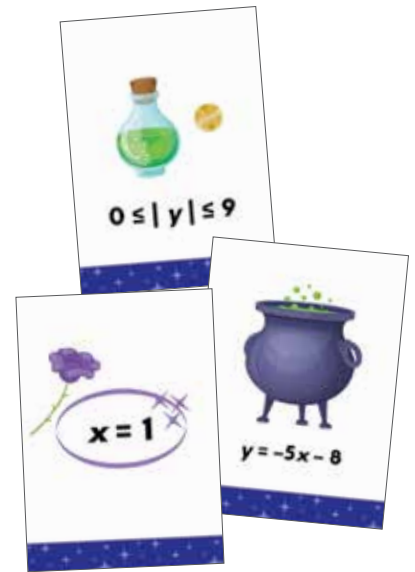
**Goal:** Combine 3 cards to create as many potions as you can in 5 minutes.

**Setup:** Give all players pencils and paper. Shuffle the function (cauldron) cards, the x-value (ingredients) cards, and the y-value (potion) cards. Give an equal number of each type of card to each player. (**Note:** If there are extra cards, set them to the side.)

### Rules

1. To begin the game, set a 5-minute timer.
2. All players look at their own cards and work to make as many potions as possible. To make a potion, combine a cauldron, an ingredient, and a potion card to make a true equation.
3. After 5 minutes, players must show everyone their work to prove that their card combinations are true. All potion cards that were accurately combined with cauldron and ingredient cards will be scored.

**How to Win:** Earn the most gold pieces to win. (Gold pieces are shown on the potions cards.)



## Equation Emporium (2–4 Players)

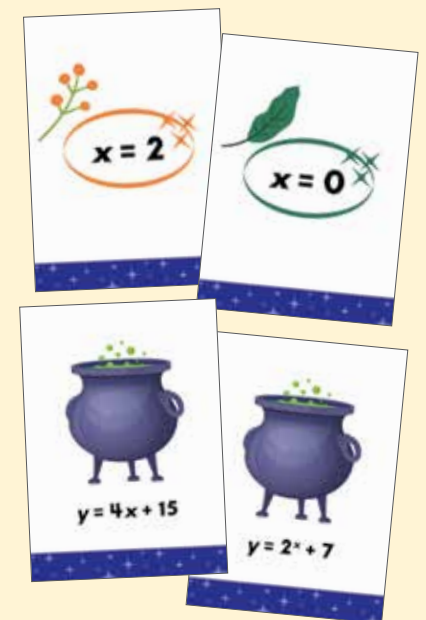
**Goal:** All players work together to earn 20 gold pieces in 3 rounds.

**Setup:** Give all players pencils and paper. Mix all the potion cards, and place 3 face up in the middle. Put the rest in a pile face down. Mix all the cauldron cards. Give each player 2 cards, and put the rest in a pile face down. Mix all the ingredients cards. Give each player 2 cards, and put the rest in a pile face down.

### Rules

1. Look at your cards to find one ingredient card and one cauldron card that combine to make one of the three potions. If the other players agree with your work, set those 2 cards to the side and collect the potion card.
2. The round ends when all potion cards have been collected or all players agree that they do not have cards to make any more potions.
3. To begin the next round, replace all the cards used in round one. There should be 3 new potions face up in the middle. All players should have 2 ingredient cards and 2 cauldron cards.

**How to Win:** After 3 rounds, if the group collected 20 or more pieces of gold, everyone wins the game.



# Family Time

## Supporting Your 8th Grader

**Eighth grade is a pivotal year as your child prepares for the transition to high school. In addition to supporting their academic growth, you can help them develop essential life skills and foster a sense of responsibility and community involvement.**



- ◆ Have open conversations about internet safety and responsible online behavior. Discuss the risks of cyberbullying, oversharing personal information, and the importance of digital citizenship.
- ◆ Encourage your child to explore internships or volunteer work that aligns with their interests, teaching them valuable skills such as time management, teamwork, and financial responsibility.
- ◆ Involve your child in community service projects or charitable initiatives to promote a spirit of giving back and help them understand the value of empathy.
- ◆ Discuss healthy coping mechanisms for stress and anxiety, such as exercise, journaling, or seeking support from trusted adults or counselors when needed.
- ◆ Foster your child's independence by allowing them to take on more responsibilities at home, such as managing their schedules, doing chores, or helping make family decisions.
- ◆ Encourage your child to pursue extracurricular activities or hobbies that align with their passions, providing a healthy outlet for self-expression and personal growth.



**Learn**  
— and —  
**CREATE**

**FUNCTIONS**  
**AND POTIONS**

**TCM** Teacher  
Created  
Materials

2-4 players

154141 (154142)



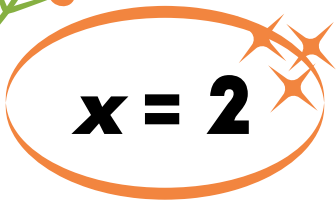
979-8-7659-9575-4



$$10 \leq |y| \leq 19$$






$$**x = 2**$$





$$y = 2^x \cdot 3$$

